CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 20-883

MICROBIOLOGY REVIEW

REVIEW FOR HFD-180 OFFICE OF NEW DRUG CHEMISTRY MICROBIOLOGY STAFF HFD-805

Microbiologist's Review #2 of NDA 20-883 Amendment October 20, 1998

OCT 20 1998

1. APPLICATION NUMBER: 20-883 Amendment

APPLICANT: Texas Biotechnology Corporation

7000 Fannin, Suite 1920 Houston, TX 77030

2. PRODUCT NAMES: Novastan (Argatroban) Injection

3. **DOSAGE FORM AND ROUTE OF ADMINISTRATION:** Each vial contains 2.5 ml of the formulation with 250 mg of argatroban. Novastan Injection is to be administered intravenously.

4. METHOD(S) OF STERILIZATION: Aseptic fill

5. PHARMACOLOGICAL CATEGORY: 1P. Novastan Injection is indicated for anticoagulant therapy in patients with heparin-induced thrombocytopenia.

B. 1. DATE OF INITIAL SUBMISSION: August 11, 1997

2. <u>AMENDMENT</u>: July 8, 1998

3. RELATED DOCUMENTS:

4. ASSIGNED FOR REVIEW: August 17, 1998

5. DATE OF CONSULT REQUEST: July 13, 1998

C. REMARKS:

The submission responds to questions presented to the applicant as a result of Microbiologist's Review #1. The questions from the "List of Microbiology Comments and Deficiencies" have been copied into the "Review Notes" section of this review and the responses are individually reviewed.

D. CONCLUSIONS:

The submission is recommended for approval for issues concerning microbiology.

Brenda Uratani, Ph.D.
Review Microbiologist

cc:

NDA 20-883 Amendment HFD-180/ Div. File HFD-805/ Uratani HFD-180/CSO/ J. DuBeau drafted by: Brenda Uratani, 10/20/98 R/D initialed by P. Cooney, 10/20/98

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REVIEW FOR HFD-180 OFFICE OF NEW DRUG CHEMISTRY MICROBIOLOGY STAFF HFD-805

OCT 29 1997

Microbiologist's Review #1 of NDA 20-883 October 29, 1997

1.		APPLICATION NUMBER: 20-	383	
•		APPLICANT: Texas Biotechnolo 7000 Fannin, Suit Houston, TX 770	e 1920 CCC	
	2.	PRODUCT NAMES: Novastan (Argatroban) Injection		
	3.	DOSAGE FORM AND ROUTE OF ADMINISTRATION: Each vial contains 2.5 ml of the formulation with 250 mg of argatroban. Novastan Injection is to be administered intravenously.		
	4.	METHOD(S) OF STERILIZATION:	Aseptic fill	
	5.	. PHARMACOLOGICAL CATEGORY for anticoagulant therapy in patients with		
В.	1.	. DATE OF INITIAL SUBMISSION:	August 11, 1997	
	2.	2. AMENDMENT: none		
	3.	3. RELATED DOCUMENTS:		
	4. ASSIGNED FOR REVIEW: September 12, 1997		ember 12, 1997	
	5.	DATE OF CONSULT REQUEST:	August 20, 1997	
C. REMARKS:				
Argatroban is a synthetic, small molecule, thrombin inhibitor derived from L- arginine. It is indicated for use in anticoagulant therapy in patients with heparin-induced thrombocytoperia. Novastan Injection, a single use parenteral formulation, contains no preservatives. The drug product is manufactured by				
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samp	les is to be performed by	
D.	CONCLUSIONS:	•
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The NDA is approvable pending resolution of issues related to thermal qualification of the autoclave cycle and other sterility issues specified in the "List of Microbiology Comments and Deficiencies".

Brenda Uratani, Ph.D.
Review Microbiologist

cc:

NDA 20-883 HFD-180/ Div. File HFD-805/ Uratani HFD-180/CSO/ J. DuBeau drafted by: Brenda Uratani, 10/29/97 R/D initialed by P. Cooney, 10/29/97